SONY

4-103-124-**71**(2)

FD Trinitron WEGA

WIDE Colour Television

Operating Instructions **GB**

⚠ **Before operating the TV, please read the "Safety Information" section of this manual. Retain this manual for future reference.**

KV-28FQ86U
KV-32FQ86U

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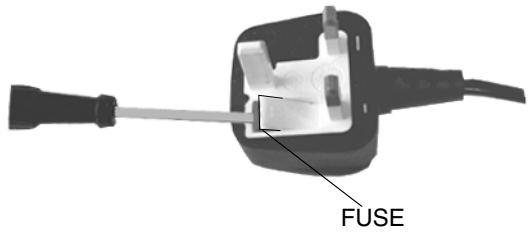
NOTICE

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience. Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with ⓐ or ⓑ) must be used. When an alternative type of plug is used it should be fitted with a 5 AMP fuse, otherwise the circuit should be protected by a 5 AMP fuse at the distribution board. If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service centre.

How to replace the Fuse

Open the fuse compartment with a flat blade screwdriver, and replace the fuse.



IMPORTANT

If the plug supplied is not suitable for the socket outlet in your home, it should be cut off and an appropriate plug fitted in accordance with the following instructions:
The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured green or green and yellow.

WARNING

- To prevent shock hazard, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be destroyed.
- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

Introduction

Thank you for choosing this Sony product.

Before operating the TV, please read this manual thoroughly and retain it for future reference.

• Symbols used in the manual:

- ⚠ Important information.
- ⓘ Information on a feature.
- **1,2...** Sequence of instructions.
- Buttons shaded white on the remote control show you the buttons you have to press to follow the sequence of the instructions.
- Informs you of the result of the instructions.

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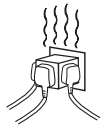
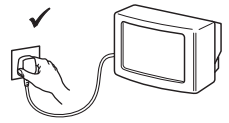
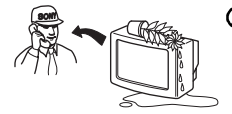
Safety Information



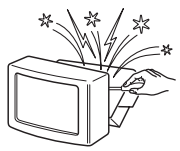
This set is to operate on a 220-240V AC supply only. Take care not to connect too many appliances to the same power socket as this could result in fire or electric shock.



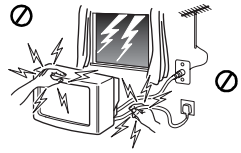
For environmental and safety reasons, it is recommended that the TV set is not left in standby mode when not in use. Disconnect from the mains. However, some TVs may have features which require they are left in standby. The instructions in this manual will inform you if this applies.



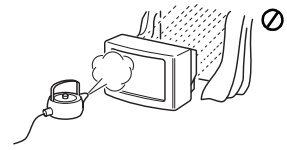
Never push objects of any kind into the set as this could result in a fire or electric shock. Never spill liquid of any kind on the set. If any liquid or solid object does fall into the cabinet, do not operate the TV. Have it checked immediately by qualified personnel.



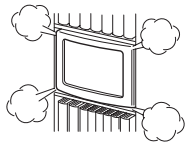
Do not open the cabinet and the rear cover of the TV. Refer to qualified service personnel only.



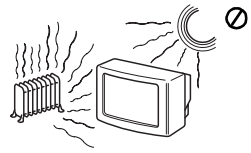
For your own safety, do not touch any part of the TV, power lead or aerial lead during lightning storms.



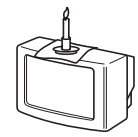
To prevent fire or shock hazard, do not expose the TV to rain or moisture.



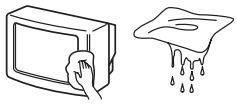
Do not cover the ventilation openings of the TV For ventilation, leave a space of at least 10cm all around the set.



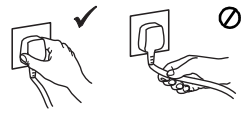
Never place the TV in hot, humid or excessively dusty places. Do not install the TV where it may be exposed to mechanical vibrations.



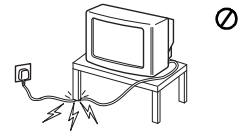
To prevent fire, keep inflammable objects or naked lights (eg candles) away from the TV.



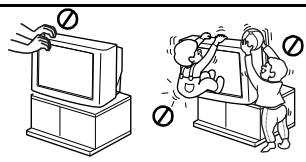
Clean the screen and cabinet with a soft, lightly dampened cloth. Do not use any type of abrasive pad, alkaline cleaner, scouring powder or solvent, such as alcohol or benzine, or antistatic spray. As a safety precaution, unplug the TV before cleaning it.



Pull out the power lead by the plug. Do not pull on the power lead itself.

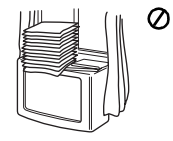


Take care not to place heavy objects on the power lead as this could result in damage.
We recommend you wind any excess lead around the holders provided on the rear of the TV.



Place the TV on a secure stable stand. Never attempt to move the TV and stand together -always move the TV and stand separately. Do not place the TV on its side or face up. Do not allow children to climb on to it.

Unplug the power lead before moving the TV. Avoid uneven surfaces, quick steps or excessive force. If the set has been dropped or damaged, have it checked immediately by qualified service personnel.



Do not cover the ventilation openings of the TV with items such as curtains or newspapers etc.

Checking the Accessories supplied

1 Remote control (RM-945)

2 Batteries (AA size)

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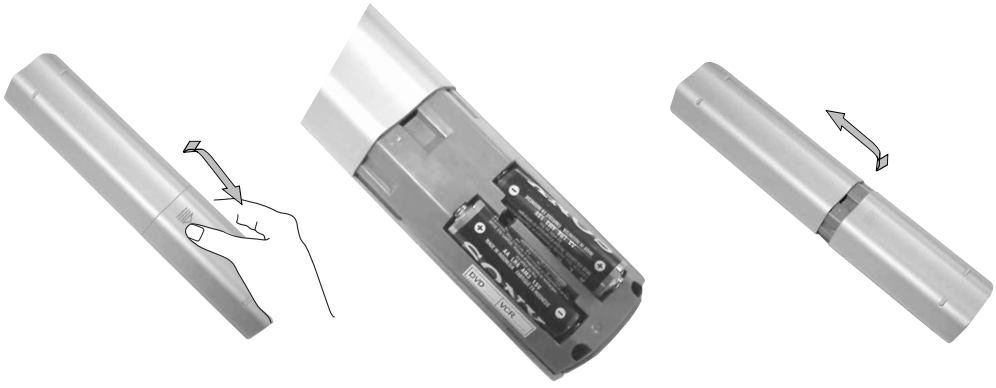
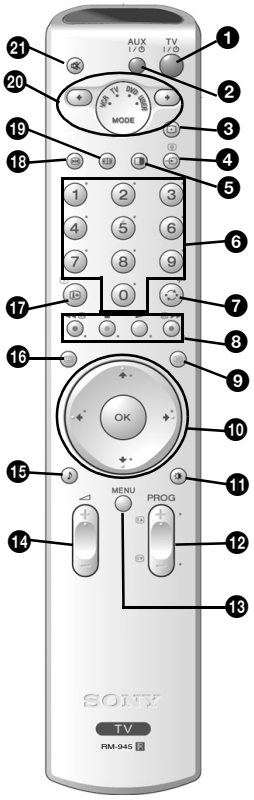
Inserting Batteries into the Remote Control

Make sure you insert the supplied batteries using the correct polarities.
Always remember to dispose of used batteries in an environmental friendly way.



Overview of Remote Control Buttons



❶ **TV I/⏻ : To Temporarily Switch Off TV (standby mode):**
Press this button to temporarily switch off the TV (the standby indicator ⏻ on the TV lights up). Press again to switch on TV from standby mode.

- To save energy we recommend switching off completely when TV is not in use.
- After 15 minutes without a TV signal and without any button being pressed, the TV switches automatically into standby mode.

❷ **Aux I/⏻ :** press this button to switch your VCR or DVD on or off.

❸ **Selecting TV mode:** press this button to switch off PAP, Teletext or Video input mode.

❹ **Selecting input source:** press this button repeatedly until the symbol of the desired input source appears on the TV screen. Refer to page 23.

❺ **PAP (Picture And Picture):** press this button to divide the screen into two for watching two channels simultaneously. Refer to page 19.

❻ **Selecting broadcast channels:** if Media Selector (⓴) is switched to TV, press these buttons to select channels. For double-digit programme numbers, enter the second digit within 2.5 seconds.

❼ **a) Watching last channel selected:** if Media Selector (⓴) is switched to TV, press this button to return to the previous channel you were watching (provided you watched it for at least 5 seconds).

b) Selecting VCR double-digit: if Media Selector (⓴) is switched to VCR, press this button to select double-digit channels for Sony VCR's e.g.for 23, press -/-- first and then the buttons 2 and 3.

❽ **a) Fastext:** if Media Selector (⓴) is switched to TV and whilst you are in Teletext mode, these buttons can be used as Fastext buttons. For details see page 20.

b) Operating VCR or DVD: if Media Selector (⓴) is switched to VCR or DVD, these buttons will operate the main functions of your VCR or DVD, once the remote control has been programmed. Refer to page 24.

❾ **Teletext:** press this button to switch on Teletext. For details see page 20.

❿ **a) Displaying a channel index:** if Media Selector (⓴) is switched to TV and MENU is switched off, press **OK** to display a channel overview. If you want to select a channel, press ↓ or ↑ then press the **OK** button to watch the selected channel.

b) Navigator: if Media Selector (⓴) is switched to TV and MENU (⓭) is switched on, use these buttons to navigate through the menu system of the TV. Refer to page 10.

⓫ **Selecting picture mode:** press this button repeatedly to change the picture mode. For details on the different picture modes refer to page 11.

⓬ **Selecting broadcast channels:** press these buttons to select the next or previous broadcast channel.

⓭ **Menu system:** press this button to enter the TV menu system. Refer to page 10.

⓮ **Adjusting volume:** press these buttons to increase or decrease the audio volume.

⓯ **Selecting the sound effect:** Press this button repeatedly to change the sound effect. For details on different sound effects refer to page 12.

⓰ **NexTView:** press this button to display NexTView. For details refer to page 21.

⓱ **Displaying Info:** press this button to display all on-screen indication such as channel number, etc. Press again to cancel.

⓲ **Freezing the picture:** Press this button to freeze the picture. The screen is divided into two screens. On the left will be the normal picture, on the right the picture is frozen. Press this button again to return to the normal picture.

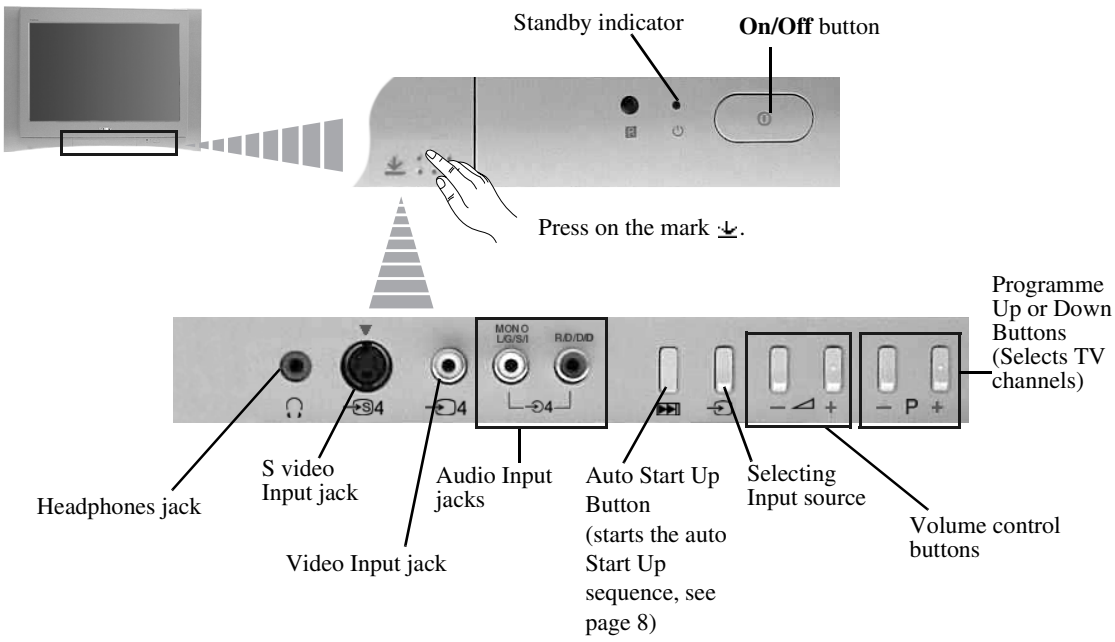
⓳ **Selecting the screen format:** press this button repeatedly to change the format of the screen: 4:3 for a conventional picture or 16:9 for an imitation of wide screen.

⓴ **Media Selector:** press these buttons to select which device you want to operate, TV, VCR or DVD. A green light will be momentarily lit to show which one you have selected. Refer to page 24.

㉑ **Muting the sound:** press this button to mute the TV sound. Press again to restore the sound.

The buttons labelled ❹, ⓬ and ⓱ are also used for Teletext operation. For details see page 20.

Overview of the TV Buttons


Standby indicator
On/Off button
Press on the mark .
Programme Up or Down Buttons (Selects TV channels)
Headphones jack
S video Input jack
Video Input jack
Audio Input jacks
Auto Start Up Button (starts the auto Start Up sequence, see page 8)
Selecting Input source
Volume control buttons

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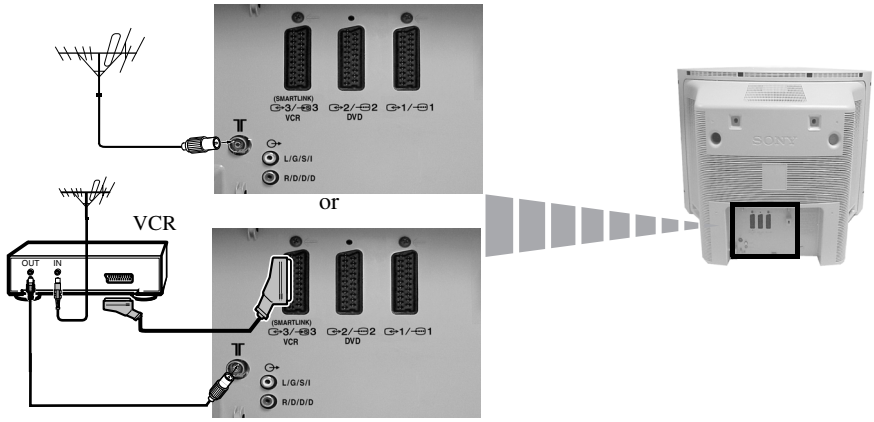
Connecting the Aerial and VCR

- Connecting cables are not supplied.
- For more details of VCR connections as well as other connections, please refer to page 22.



The Scart lead is optional. If you use this optional connection it can improve picture and sound quality when using a VCR.

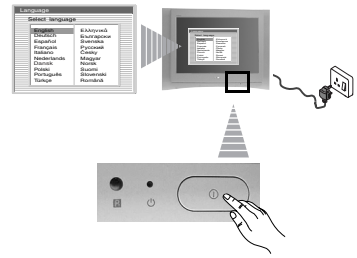
If you do not use a Scart lead, you will need to manually tune the VCR to a spare channel once the autotune procedure has been completed. Refer to “Manual Programme Preset” on page 18. Also refer to your VCR instruction manual to find out how to find the output channel of your VCR.

Switching On the TV and Automatically Tuning

The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) choose the language of the menu screen 2) adjust the picture slant, 3) check how to connect optional equipment to your TV, 4) search and store all available channels (TV Broadcast) and 5) change the order in which the channels (TV Broadcast) appear on the screen.

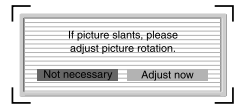
However, if you need to change any of these settings at a later date, you can do so by selecting the appropriate option in the (Set Up menu) or by pressing the Auto Start Up Button on the TV set.

1 Connect the TV plug to the mains socket (220-240V AC, 50Hz)
The first time that the TV set is connected, it is usually turned on. If the TV is off, press the on/off button on the TV set to turn on the TV.
The first time you switch on the TV, a **Language** menu displays automatically on the TV screen.



2 Press the ↑, ↓, ← or → buttons on the remote control to select your language, then press the **OK** button to confirm your selection. From now on all the menus will appear in your chosen language.

3 Because of the earth's magnetism, the picture might slant. The **Picture Rotation** menu allows you to correct the picture slant if it is necessary.

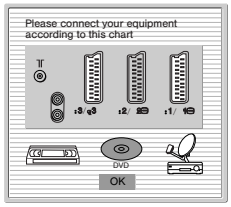


a) If it is not necessary, press **OK** to select **Not necessary**.

b) If it is necessary, press ← or → to select **Adjust now**, then press **OK** and correct any slant of the picture between –5 and +5 by pressing ↓ or ↑. Finally press **OK** to store.

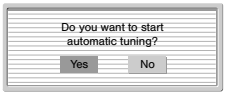
continued...

4 A diagram will appear showing you how to connect a wide range of equipment to your TV set. Follow the instructions and finally press the **OK** button to remove the diagram and continue the automatic process.

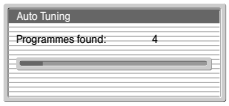


⚠ After the automatic tuning process has finished and any optional equipment has been connected, we recommend you follow the instructions explained on the section "Connection Guide" on page 15 to get the optimum settings related to the optional equipment.

5 The **Auto Tuning** menu appears on the screen. Press the **OK** button to select **Yes**.



6 The TV starts to automatically search and store all available broadcast channels for you.

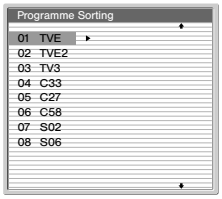


⚠ This procedure could take some minutes. Please be patient and do not press any buttons, otherwise automatic tuning will not be completed.

ⓘ In some countries the TV Broadcaster installs the channels automatically (ACI system). In this case, the TV Broadcaster sends a menu in which you can select your city by pressing the ↓ or ↑ button and **OK** to store the channels.

⚠ If no channels were found during the auto tune process, a message appears automatically on the screen asking you to connect the aerial. Check the aerial connection (refer to page 7). Press the **OK** button to restart the auto tuning process.

7 After all available channels are captured and stored, the **Programme Sorting** menu automatically appears on the screen enabling you to change the order in which the channels are stored.



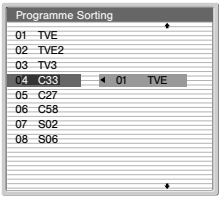
a) If you wish to keep the broadcast channels in the tuned order, go to step 8.

b) If you wish to store the channels in a different order:

1 Press the ↓ or ↑ button to select the programme number with the channel (TV Broadcast) you wish to move. Press the → button.

2 Press the ↓ or ↑ button to select the new programme number position for your selected channel (TV Broadcast). Press the **OK** button to store.

3 Repeat steps b)1 and b)2 if you wish to change the order of the other channels.



8 Press the **MENU** button to remove the menu from the screen

Your TV is now ready for use

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Introducing and Using the Menu System

Your TV uses an On-Screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:

1 **To switch on the menu screens**:

Press the **MENU** button to switch the first level menu on.

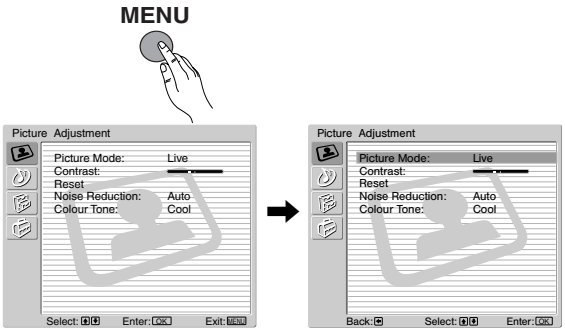
2 **To navigate through the menus:**

- To highlight and select the desired menu or option, press ↓ or ↑.
- To enter the selected menu or option, press **OK** or →.
- To return to the last menu or option, press **OK** or ←.
- To alter the settings of your selected option, press ↓/↑/← or →.
- To confirm and store your selection, press **OK**.

3 **To switch off the menu screens:**

Press the **MENU** button to remove the menu from the screen.

The Picture Adjustment Menu



The "Picture Adjustment" menu allows you to alter the picture settings.

To do this:
Press the **MENU** button and then press **OK** to enter this menu. Next press ↓ or ↑ to select the desired option and press **OK**. Finally read the instructions below on how to operate each option.

Picture Mode This option allows you to customise the Picture Mode based on the programme you are watching. After selecting this option press **OK**. Next press ↓ or ↑ repeatedly to select:

Personal (for individual settings).
Live (for live broadcast programmes, DVD and Digital Set Top Box receivers)
Movie (for films).

Once you have selected your desired option, press **OK** to store.

"Brightness", "Colour" and "Sharpness" level of "Live" and "Movie" mode are fixed in the factory to get the best picture quality.

Contrast Press ← or → to reduce or enhance picture contrast. Next press **OK** to store.

Brightness Press ← or → to darken or brighten the picture. Next press **OK** to store.

This option only appears for alteration if "Picture Mode" is set to "Personal".

Colour Press ← or → to decrease or to increase color intensity. Next press **OK** to store.

This option only appears for alteration if "Picture Mode" is set to "Personal".

Hue Press ← or → to decrease or to increase the green tones. Next press **OK** to store.

This option only appears for NTSC signal (e.g. USA video tapes).

Sharpness Press ← or → to soften or to sharpen the picture. Next press **OK** to store.

This option only appears for alteration if "Picture Mode" is set to "Personal".

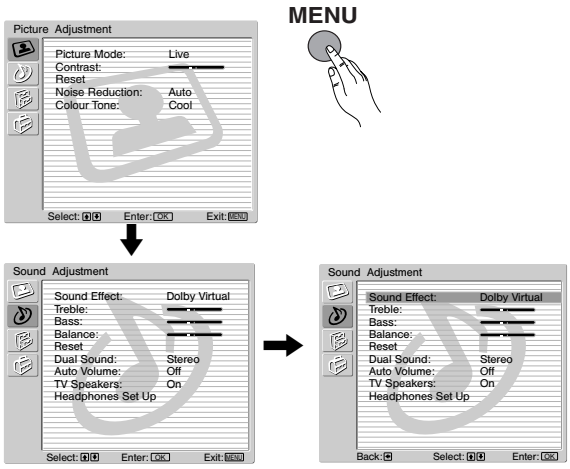
Reset Press **OK** to reset the picture to the factory preset levels.

Noise Reduction This option is set to **Auto** to automatically reduce the snowy picture that may be visible in the broadcast signal. However, it can be modified by pressing ↓ or ↑ to select **Off, Low, Mid** or **High**. Finally press **OK** to store.

Colour Tone This option allows you to alter the tint of the picture. After selecting this option press →. Next press ↓ or ↑ repeatedly to select: **Warm** (gives the white colours a red tint), **Normal** (gives the white colours a neutral tint), **Cold** (gives the white colours a blue tint). Next press **OK** to store.

GB

The Sound Adjustment Menu



The "Sound Adjustment" menu allows you to alter the sound settings.

To do this:

Press the **MENU** button and press ↓ to select ♪, then press **OK** to enter this menu. Next press ↓ or ↑ to select the desired option and press **OK**. Finally read the instructions below on how to operate each option.

Sound Effect

This option allows you to customise the Sound Effect. After selecting this option press **OK**. Next press ↓ or ↑ repeatedly to select:

- **Off** (Flat response).
- **Natural** (Enhances clarity, detail and presence of sound by using "BBE High Definition Sound system"*).
- **Dynamic** ("BBE High Definition Sound system"* intensifies clarity and presence of sound for better intelligibility and musical realism).
- **Dolby** Virtual** (Dolby Virtual, simulates the sound effect of "Dolby Surround Pro Logic").

Once you have selected your desired option, press **OK** to store.

Treble

Press ← or → to decrease higher-frequency sounds. Next press **OK** to store.

Bass

Press ← or → to decrease or to increase the lower-frequency sounds. Next press **OK** to store.

Balance

Press ← or → to emphasise the left or the right speaker. Next press **OK** to store.

Reset

Press **OK** to reset the sound to the factory preset levels. Next press **OK** to store.

Dual Sound

- For a Stereo broadcast:
  Press ↓ or ↑ to select **Stereo** or **Mono**. Next press **OK** to store.
- For a bilingual broadcast:
  Press ↓ or ↑ to select **Mono** (for mono channel if available), **A** (for channel 1) or **B** (for channel 2). Next press **OK** to store.

continued...

Auto Volume Press ↓ or ↑ to select **On** (the volume level of the channels will stay the same, independent of the broadcast signal, e.g. in the case of advertisements) or **Off** (the volume level changes according to the broadcast signal). Next press **OK** to store.

If you select “Dolby Virtual” on the “Sound Effect” option, the “Auto Volume” option will automatically be switched to “Off” and vice versa.

TV Speakers This option allows you to choose if you want to listen to the TV sound from the TV speakers or from an external amplifier connected to the audio outputs on the rear of the TV.

After selecting this option, press **OK**. Next press ↓ or ↑ repeatedly to select:

On (to listen the TV from the TV set speakers).

One time off (to listen to the TV from the external amplifier only one time. By using this option, any time the TV is turned off/on, it returns to the default setting "On").

Permanent off (to always listen to the TV from external amplifier).

Once you have selected your desired option, press **OK** to store.

GB

If you have selected "One time off" or "Permanent off", the volume of the external equipment can also be altered by pressing the ◿ +/- buttons of the remote control. When the volume buttons are pressed, the symbol will appear indicating that the volume you are altering is not the volume of the TV set speakers, it is from the external equipment.

Headphones Set Up This option allows you to customise the headphones volume and the PAP settings (refer to page 19 for details on PAP).

After selecting this option press **OK**. Next press ↓ or ↑ repeatedly to select:

Volume Press ← or → to decrease or increase the volume level from the headphones.

Dual Sound
- For a Stereo broadcast: Press ↓ or ↑ to select **Stereo** or Mono
- For a bilingual broadcast: Press ↓ or ↑ to select **mono** (for mono channel if available), **A** (for channel 1) or **B** (for channel 2).

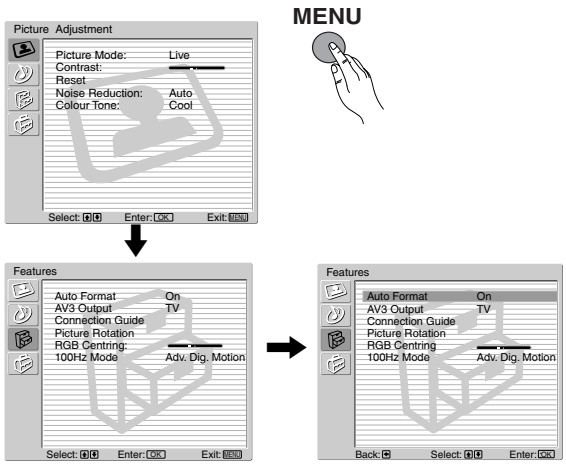
PAP Sound Select **Frame** if you want to listen to the active screen (framed) of the PAP screen (see page 19), select **Left picture** if you want to listen to the left screen or select **Right picture** if you want to listen to the right screen.

* The “BBE High Definition Sound system” is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word “BBE” and BBE Symbol are trademarks of BBE Sound, Inc.

**This TV has been designed to create surround sound effect by simulating the sound of four speakers with two speakers, when the broadcast audio signal is Dolby Surround encoded. The sound effect can also be improved by connecting a suitable external amplifier (for details refer to page 23).

** Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol DD are trademarks of Dolby Laboratories.

The Features Menu



The "Features" menu allows you to alter various settings of the TV.

To do this:
Press the **MENU** button then press ↓ twice to select , then press **OK** to enter this menu. Next press ↓ or ↑ to select the desired option and press **OK**. Finally read the instructions below on how to operate each option.

AUTO FORMAT

This option allows you to automatically change the aspect ratio of the screen.

To do this:
After selecting the option, press **OK**. Then press ↓ or ↑ to select **On** (if you wish the TV set to automatically switch the screen format according to the broadcast signal) or **Off** (if you wish to keep your preference). Finally press **OK** to store.

Even if you have selected "On" or "Off" in the "Auto Format" option, you can always modify the format of the screen by pressing repeatedly on the remote control to select one of the following formats:

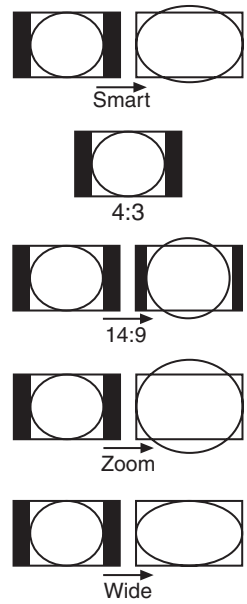
Smart: Imitation of wide screen effect for 4:3 broadcast.

4/3: Conventional 4:3 picture size, full picture information.

14/9: Compromise between 4:3 and 16:9 picture size.

ZOOM: Widescreen format for letterbox movies.

WIDE: For 16:9 broadcast. Full picture information.



• In "SMART", "ZOOM" and "14/9" modes, parts of the top and bottom of the screen are cut off. Press ↓ or ↑ to adjust the position of the image on the screen (e.g. to read subtitles).

continued...

AV3 OUTPUT

This option allows you to select the source to be output from the Scart connector **3/ 3** so that you can record from this Scart any signal coming from the TV or from external equipment connected to the Scart connector **1/ 1**, **2/ 2** or front connectors **4**, **4** or **4**.

If your VCR supports SmartLink, this procedure is not necessary.

To do this:

Once you have entered into the "Features" menu as explained in the previous page and after selecting the option, press **OK**. Then press ⬇ or ⬆ to select the desired output signal:

TV to output the aerial source.
AV1 to output sources connected to **1/ 1**.
AV2 to output sources connected to **2/ 2**.
AV4 to output sources connected to **4**, **4** or **4**.
AUTO to output the signal that is being viewed on the TV.

- If you select “AUTO”, the output signal will always be the same one that is displayed on the screen.
- If you have connected a decoder to the Scart **3/ 3** or to a VCR connected to this Scart, please remember to change back the “AV3 Output” to “TV” for correct unscrambling.

CONNECTION GUIDE

Even you have already connected the external equipment to the TV set, it is important for you to follow the instructions of this menu. If you proceed in this way, you will get the optimum picture settings related to the optional equipment.

GB

To do this:

1 Once you have entered the "Features" menu as explained in the previous page and after selecting the option, press **OK**. Next press ⬇ or ⬆ to chose the equipment you want to connect among the available: **SAT** (satellite)**, Decoder, DVD, GAME, VIDEO** or **DVD rec**. (DVD recorder). Next press ➡ to select the equipment chosen (equipment selected also can be deleted by pressing ⬅). Once you have selected all the equipment to be connected, press ⬇ or ⬆ to select "**Confirm**" and press **OK**.

2 A new menu will appear showing you on which Scart connector on the rear of the TV should be connected to each equipment. Please connect each equipment according to this information to obtain the optimum picture setting of the optional equipment.

3 Once you have connected the optional equipment, press ⬅ or ➡ to select "**OK**" and finally press the **OK** button of the remote control.

*We strongly recommend you to follow our connection proposals, but in case you do not agree press ⬅ or ➡ to select "No" then press the **OK** button. A new menu appears on the screen in which you can assign the connections according to your preferences.*

PICTURE ROTATION

Because of the earth’s magnetism, the picture may slant. If this is the case, you can correct the pictures slant by using this option.

To do this:

Once you have entered the "Features" menu as explained in the previous page and after selecting the option, press **OK**. Then press ⬇ or ⬆ to correct any slant of the picture between -5 and +5.

RGB CENTRING

This option is only available if an RGB source has been connected to the TV.

This option allows you to readjust the horizontal position of the picture in case you need to do it when connecting an RGB source.

To do this:

Once you have entered the "Features" menu as explained in the previous page and while watching an RGB source select the “RGB Centring” option and press **OK**. Then press ⬇ or ⬆ to adjust the centre of the picture between –5 and +5. Finally press **OK** to confirm and store.

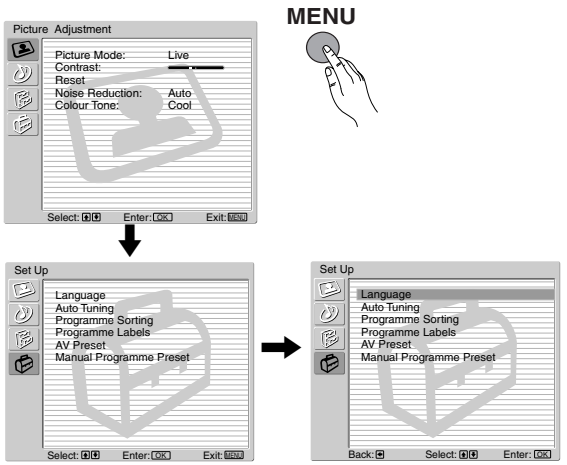
100Hz MODE

This option allows you to choose the best setting to view moving images.

To do this:

Once you have entered the "Features" menu as it is explained in the previous page, select this option and press **OK**. This option is pre-set to **Adv. Dig. Motion** (Advanced 100Hz Digital Motion). Although this is the most ideal setting to produce smooth images and to reduce any blurring that may appear with some moving images, depending on your own preference, this option can be altered. Press ⬇ or ⬆ to select **Digital Plus** (Advanced 100Hz Digital Plus) and finally press **OK** to store your selection.

The Set Up Menu



The “Set Up” menu allows you to alter various options on this TV.

To do this:
Press the **MENU** button and press ↓ three times to select , then press **OK** to enter this menu. Next press ↓ or ↑ to select the desired option and press **OK**. Finally read the instructions below on how to operate each option.

LANGUAGE

This option allows you to select the language that menus are displayed in.

To do this:
After selecting the option, press **OK** and then proceed in the same way as in step 2 of the section "Switching On the TV and Automatically Tuning" on page 8.

AUTO TUNING

This option allows you to automatically search for and store all available TV channels.

To do this:
After selecting the option, press **OK** and then proceed in the same way as in the steps 6 and 7 of the section “Switching On the TV and Automatically Tuning” on page 9.

PROGRAMME SORTING

This option allows you to change the order in which the channels (TV Broadcast) appear on the screen.

To do this:
After selecting the option, press **OK** and then proceed in the same way as in the step 8 of the section “Switching On the TV and Automatically Tuning” on page 9.

continued...

PROGRAMME LABELS

This option allows you to name a channel using up to five characters (letters or numbers).

To do this:

1 Once you have entered the "Set Up" menu as explained in the previous page and after selecting the option, press **OK**, then press ▼ or ▲ to select the programme number with the channel you wish to name. Next press **OK**.

2 With the first element of the **Label** column highlighted, press **OK** and ▼, ▲, ◄ or ► to select the letter, then press **OK**.
When you have finished, press ▼, ▲, ◄ or ► to select the word "**End**" on the screen and finally press **OK** to remove the menu from the screen.

- To correct the letter, select "⟵" on the screen to go back and press **OK**.
- For a blank, select "▯" on the screen and press **OK**.

AV PRESET

This option allows you to:

a) Designate a name to the external equipment you have connected to the input sockets of the TV set.

GB

To do this:

1 Once you have entered the "Set Up" menu as explained in the previous page and after selecting the option, press **OK**, then press ▼ or ▲ to select the input source you wish to name: **AV1, AV2** or **AV3** for the rear Scarts and **AV4** for front connectors. Next press **OK** twice.

2 A label automatically appears in the label column:

a) If you want to use one of the predefined labels, press ▼ or ▲ to select the desired label and finally press **OK**.

The total predefined labels are: **VIDEO, DVD, CABLE, GAME**, **CAM** (camcorder) or **SAT** (satellite).

b) If you want to set a different label, select **Edit** and press **OK**. Then, with the first element highlighted, press ▼, ▲, ◄ or ► to select the letter, and press **OK**. When you have finished, press ▼, ▲, ◄ or ► to select the word "**End**" on the screen and finally press **OK** to remove the menu from the screen.

- To correct the letter, select "⟵" on the screen to go back and press **OK**.
- For a blank, select "▯" on the screen and press **OK**.

b) Change the input sound level of the optional equipment connected.

To do this:
Once you have entered the "Set Up" menu as explained in the previous page and after selecting the option press **OK**, then press ▼ or ▲ to select the input source whose input sound level you wish to alter: **AV1, AV2** or **AV3** for the rear Scarts and **AV4** for the front connectors. Next press ► twice to highlight the **Sound Offset** column. Finally press **OK** and ▼ or ▲ to alter the input sound level between -9 and +9.

continued...

MANUAL PROGRAMME PRESET

This option allows you to:

a) Preset broadcast channels or the VCR channel one by one to the programme order of your choice.

To do this:

1 Once you have entered the “Set Up”menu as explained on page 16 and after selecting the "Manual Programme Preset" option, press **OK**. Next with **Programme** option highlighted press **OK**. Press ↓ or ↑ to select which programme number you want to preset the channel on (for VCR, select programme number “0”). Then press ←.

2 After selecting the **Channel Number** option, press **OK**. Then press the number buttons to enter directly the channel number of the TV Broadcast or the channel of the VCR signal. If you do not know the channel number, press → and ↓ or ↑ to search for it. When you have tuned in to the desired channel, press **OK** twice to store.

Repeat all the above steps to tune and store more channels.

b) Label a channel using up to five characters.

To do this:
Once you have entered the “Set Up”menu as explained on page 16 and after selecting the "Manual Programme Preset" option, press **OK**. Next with the **Programme** option, highlighted press the **PROG +/-** button to select the programme number of the channel you wish to name. When the programme you want to name appears on the screen, select the **Label** option and press **OK**. Then, with the first element highlighted, press ↓, ↑, ← or → to select the letter, then press **OK**. When you have finished, press ↓, ↑, ← or → to select the word “**End**” on the screen and finally press **OK** to renove menu from the screen.

- To correct the letter, select "⏎" on the screen to go back and press **OK**.
- For a blank, select "▯" on the screen and press **OK**.

c) Fine tune the broadcast reception. Normally the automatic fine tuning (AFT) will give the best possible picture, however, you can manually fine tune the TV to obtain a better picture reception in case the picture is distorted.

To do this:
While watching the channel (TV Broadcast) you wish to fine tune, and once you have entered the “Set Up” menu as explained on page 16 and after selecting the "Manual Programme" option, press **OK**. Then select the **AFT** option and press →. Next press ↓ or ↑ to adjust the fine tuning between -15 and +15. Finally press **OK** twice to store.

d) Skip any unwanted programme numbers when they are selected with the PROG +/- buttons.

To do this:
Once you have entered the "Set Up" menu as explained on page 16 and after selecting the "Manual Programme Preset" option, press **OK**. Next with the **Programme** option highlighted, press the **PROG +/-** button to select the programme number you want to skip. When the programme you want to skip appears on the screen, select the **Skip** option and press →. Next press ↓ or ↑ to select **On**. Finally press **OK** twice to confirm and store.

To cancel this function afterwards, select “Off” instead of “On” in the step above.

PAP (PICTURE AND PICTURE)

PAP divides the screen into two to watch two pictures in format 4:3 simultaneously.

Switching PAP on and off

1 Press ◑ to display PAP.

One of the screens will be framed to indicate that this is the active screen. It means that when you want to select the PAP source, you will be doing it in the active screen.

2 Press ◑ again to remove PAP.

On the screen a banner appears guiding you on how to operate PAP. This banner will disappear after some seconds but it can always be displayed again by pressing the ⊞ button.

GB

Changing the active screen

This is only possible if the Media Selector is set to TV.

To change the active screen (framed), press the ← or → buttons.

Selecting PAP source

1 **Selecting a TV channel:**
Press the ← button to select the left screen as the active screen. Next press the number buttons or **PROG +/-** to select a TV channel.

Video input signals can not be displayed on the left screen.

2 **Selecting an input source:**
Press the → button to select the right screen as the active screen. Next press repeatedly the ⊖ button to show the input signal of the connected equipment on right screen of the TV. For more details on which input symbol you wish to choose, please see section "Viewing pictures from equipment connected to the TV" on page 23.

RF signal (TV broadcast channels) can not be displayed on the right screen.

Selecting the sound

The sound of the active screen (framed) always comes from the TV speakers.
Besides that, you can listen to the active screen as well as the non active screen via headphones.

To do this:
With the PAP switched on, refer to the section "The Sound Adjustment Menu", select "Headphones Set Up" and set the option "∩ PAP Sound" according your preference. For details see page 13.

In PAP (picture and picture) mode, the output from the Scart ⊖2/⊖2 is fixed to the right picture.

Teletext

Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.

Teletext errors may occur if you use a channel (TV Broadcast) with a weak signal.

To switch on Teletext :

1 Select the broadcast channel which carries the teletext service you wish to view.

2 Press the button once to enter Picture and Text (P&T) mode. The screen is divided into two with the Text display on the left and the TV channel in the bottom right corner.

3 If you wish to view the Text in full screen mode, press the button a second time.

Teletext
HOLIDAY FLING THAT'S JUST YOUR TYPE 220
PICK Clubbing, cruising, car hiring or taking a city break - find your ideal kind of holiday.
Holidays index 200
Holiday type 220

To select a Teletext page:

Input the 3 digit page number, using the numbered buttons.

- *If you make a mistake, retype the correct page number.*
- *If the counter on the screen continues searching, it is because the page is not available. If this is the case, input another page number.*

To access the next or preceding page:

Press **PROG +** ( ) or **PROG -** ( ).

To freeze a teletext page:

Press / button. Press again to cancel the freeze.

To reveal concealed information (e.g: answer to a quiz):

Press / button. Press again to conceal the information.

To select a sub page:

A teletext page may consist of several sub pages. In this case, one or more arrows appear next to the page number and an information box is displayed at the bottom of the screen showing the number of sub pages contained on this page. As soon as sub pages are available, they start to automatically appear. If you want to stop the show and select your desired sub page, press ← or → repeatedly.

To Switch Off Teletext:

Press button.

Fastext

Fastext service lets you access Teletext pages with one button push.
When you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the appropriate coloured button (red, green, yellow or blue) to access the page corresponding to your menu choice.

NexTView*

*(depending on availability of service).

NexTView is an on-screen electronic programme guide, providing you with programme information for different broadcasters.
When looking for information you can search by theme (sports, art, etc...) or date.

If wrong characters appear when viewing NexTView, use the menu system to enter the “Language” menu (see page 16) and select the same language as the NexTView broadcast.

Displaying NexTView

1 Select a broadcast channel providing a NexTView service. In this case the indication “NexTView” is displayed as soon as data is available.

2 To see NexTView service you have two different types of NexTView interface. These depend on the % of available data:

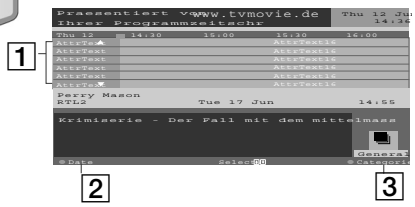
a) “Programme List” interface:
Whilst you are watching TV, and after the indication “NexTView” (coloured white) is displayed on the screen, press the button on the remote control to watch the “Programme List” interface (see fig. 1).

b) “Overview” interface:
Whilst you are watching TV, and after more than 50% of NexTView data is available (100% data may not be available depending on the area) the indication “NexTView” (coloured black) is displayed on the screen. Press the button on the remote control to watch the “Overview” interface (see fig. 2).

3 To navigate through NexTView:
- Press ← or → to move left or right.
- Press ↓ or ↑ to move downwards or upwards.
- Press **OK** to confirm a selection.
- If you have selected a programme, press **OK** to get more information on the selected programme.

4 To switch NexTView off, press the button on the remote control.

“Programme List” interface (fig. 1):



“Overview” interface (fig. 2):

1 Programmme list

2 Date:
Press the **red button** of the remote control to display the date screen, you can select the desired date by pressing ↓ or ↑. Next press **OK** to confirm.

3 Categories:
Press the **blue button** of the remote to display the icons (see below the Icon’s key) for different themes. Next press ↓ or ↑ to select the desired icon and finally press the **OK** button to confirm.

Icons’ key:

General:
All the programme information is listed by time and broadcast channels order.

News

Movie

Sports

Show

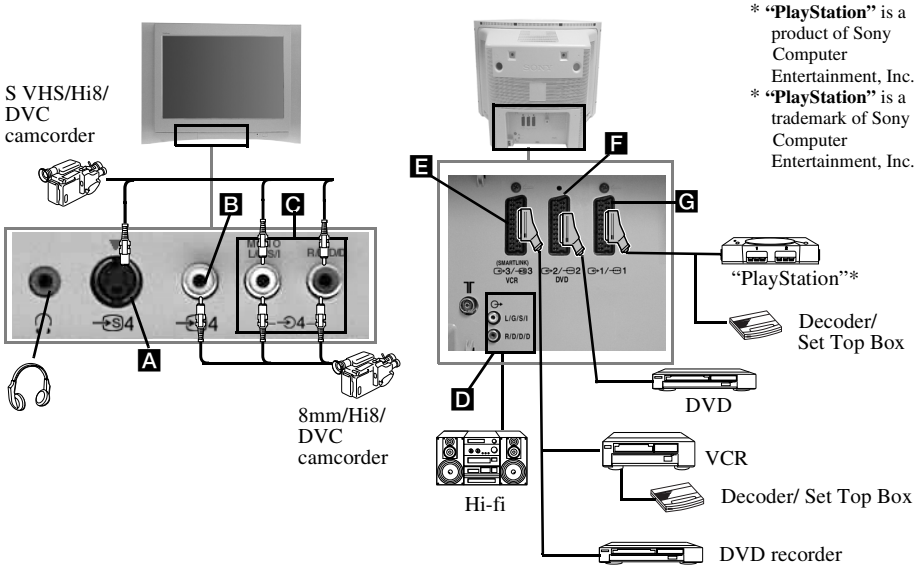
Children

Arts

Music

Connecting Equipment to the TV

- Using the following instructions you can connect a wide range of optional equipment to your TV set.
- Connecting cables are not supplied.



* **"PlayStation"** is a product of Sony Computer Entertainment, Inc.
* **"PlayStation"** is a trademark of Sony Computer Entertainment, Inc.

- To avoid picture distortion, do not connect external equipment to connectors **A** and **B** at the same time.
- Do not connect a Decoder to the Scart connector **F**.
- Games that use a "GUN" attachment to point at the screen may not work correctly due to the 100Hz technology used in this TV.

Connecting a VCR

To connect a VCR, please refer to the section "Connecting the aerial and VCR" of this instruction manual on page 7.

Connecting a VCR that supports SmartLink

SmartLink is a direct link between the TV set and the VCR. For more information on SmartLink, please refer to the instruction manual of your VCR.

If you use a VCR that supports SmartLink, please connect the VCR to the TV to the Scart connector ⊶3/⊷3 **E** using a Scart lead.

continued...

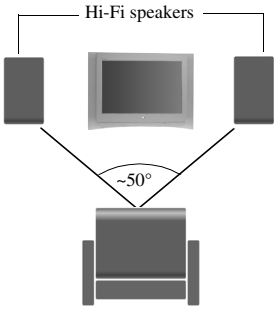
Connecting Audio Equipment to the TV

Conect your audio equipment to the audio output sockets **D** if you wish to amplify the audio output from TV. Next, using the menu system, select the “Sound Adjustment” menu and set the “TV Speakers” to “One time off” or "Permanent off" (see page 13).

The volume of the external speakers can be altered by pressing the volume buttons on the remote control. The Treble and Bass settings can also be altered through the “Sound Adjustment” menu (see page 12).

To enjoy “Dolby Virtual” sound effect through your audio equipment

Place the speakers of your equipment in front of your listening position and beside the TV set, keeping a distance of 50 cm between each speaker and the TV set.
Then using the menu system, select the menu “Sound Adjustment”. Next, select “Dolby Virtual” on the “Sound Effect” option (see page 12).



GB

Viewing pictures from equipment connected to the TV

1 Connect your equipment to the designated TV socket, as indicated on the previous page.

2 Switch on the connected equipment.

3 To watch the picture of the connected equipment, press the ⊖ button repeatedly until the correct input symbol appears on the screen.

Symbol	Input Signals
⊖1	• Audio/video input signal through the Scart connector **G**
⊖1	• RGB input signal through the Scart connector **G**. This symbol appears only if an RGB source has been connected.
⊖2	• Audio/video input signal through the Scart connector **F**.
⊖2	• RGB input signal through the Scart connector **F**. This symbol appears only if an RGB source has been connected.
⊖3	• Audio/video input signal through the Scart connector **E**.
⊖S3	• S Video Input signal through the Scart connector **E**. This symbol appears only if an S Video source has been connected.
⊖4	• Video input signal through the phono socket **B** and Audio input signal through **C**.
⊖S4	• S Video Input signal through the front S Video input jack **A** and Audio signal through **C**. This symbol appears only if an S Video source has been connected.

4 Press the ▭ button on the remote control to return to the normal TV picture.

For Mono Equipment

Connect the phono plug to the L/G/S/I socket on the front of the TV and select ⊖4 or ⊖S4 input signal using the instructions above. Next, refer to the “Sound Adjustment” section of this manual and set “Dual Sound” option to “A” on the sound menu screen (see page 12).

Remote Control Configuration for VCR or DVD

In it's default condition this remote control will operate the basic functions of this Sony TV, Sony DVDs and most Sony VCRs. To control VCRs and DVDs of other manufacturers (and some Sony VCR models), the remote control needs to be configured.

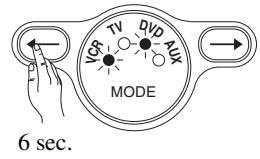
fig. 2

To do this:

- Before you start, look up the 3 digit code for your brand of DVD or VCR from the list below. On those brands that have more than one code, enter the first code number.
- Sony will endeavour to update the software according to market changes. Therefore, please refer to the code table included with the remote control for latest code set.
- A small label is added inside the battery door to allow you to record your brand codes.

1 Press and hold the ← button of the remote control for approximately 6 seconds until the green DVD and VCR light of the Media Selector starts flashing (see fig. 1).

fig. 1

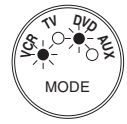


6 sec.

2 While the VCR and DVD lights are flashing, enter all three digits of the code for your brand of VCR or DVD (see the list below) using the **number buttons** on the remote control (see fig. 2).

If your selected code is entered correctly, the VCR or DVD green light (according to your selection) will be lit momentarily (see fig.3), otherwise repeat all the above steps.

fig. 3



3 Turn on your VCR or DVD and check that the main functions work.

- If your device is not working or some of the functions do not work please check that you entered the correct code set or try the next code listed against the brand.
- Not all brands are covered and not all models of every brand may be covered.

4 Always remember to press the ← or → button until the green light iluminates according to the equipment you want to operate with this remote control: **VCR, TV** or **DVD**.

VCR Brand List	
Brand	**Code**
SONY (VHS)	301, 302, 303, 308, 309,362
SONY (BETA)	303, 307, 310
SONY (DV)	304, 305, 306
AIWA	325, 331, 351
AKAI	326, 329, 330
DAEWOO	342, 343
GRUNDIG	358, 355, 360, 361, 320, 351, 366
HITACHI	327, 333, 334
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349
LG	332, 338
LOEWE	358, 355, 360, 361, 320, 351
MATSUI	356, 357
ORION	328
PANASONIC	321, 323
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359, 363, 364
SAMSUNG	339, 340, 341, 345
SANYO	335, 336
SHARP	324
THOMSON	319, 350, 365
TOSHIBA	337

DVD Brand List	
Brand	**Code**
SONY	001, 029, 030, 036, 037, 038, 039, 040, 041, 042, 043, 044, 053, 054, 055
AIWA	021
AKAI	032
DENON	018, 027, 020, 002
GRUNDIG	009, 028, 023, 024, 016, 003
HITACHI	025, 026, 015, 004, 035
JVC	006, 017
KENWOOD	008
LG	015, 014, 034
LOEWE	009, 028, 023, 024, 016, 003
MATSUI	013, 016
ONKYO	022, 033
PANASONIC	018, 027, 020, 002, 045, 046, 047
PHILIPS	009, 028, 023, 024, 016, 003, 031
PIONEER	004, 050, 051, 052
SAMSUNG	011, 014
SANYO	007
SHARP	019, 027
THOMSON	012
TOSHIBA	003, 048, 049
YAMAHA	018, 027, 020, 002

Remote Control Configuration for AV devices

To eliminate the amount of remote controls you need, this remote control will operate the main functions of some Sony's DAV, Sony's AV receivers as well as Sony's STB (see the table on the following page with the available devices).
To operate these devices with this remote needs to be configured

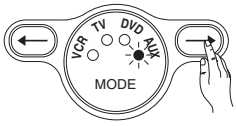
fig. 2

To do this:

- Before you start, look up the 3 digit code of your device from the list on the following page.
- Sony will endeavour to update the software according to market changes. Therefore, please refer to the code table included with the remote control for latest code set.
- A small label is added inside the battery door to allow you to record your brand codes.

1 Press and hold the → button of the remote control for approximately 6 seconds until the green AUX light of the Media Selector starts flashing (see fig. 1).

fig. 1

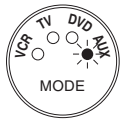


6 sec.

2 While the AUX light is flashing, enter the 3 digit code for your device
(see the list on the following page) using the **number buttons** on the remote control (see fig. 2).

If your selected code is entered correctly, the green AUX light will be lit momentarily (see fig.3), otherwise repeat all the above steps.

fig. 3



3 Turn on your device and check that the main functions work (see the table on the following page to check the main functions according to each equipment)

- If your device is not working or some of the functions do not work please check that you entered the correct code.

4 Always remember to press the ← or → button until the green light iluminates according to the equipment you want to operate with this remote control: **TV** or **AUX**. Refer to page 24 for how to operate the VCR and DVD modes.

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AVAILABLE SONY's AV MODELS	CODE	MAIN FUNCTIONS AVAILABLE
DIGITAL TERRESTRIAL RECEIVER MODEL:		Power On/Off, Channel selection, Volume control, Teletext, Fastext, EPG (Electronic Programme Guide), Menu and cursors.
VTX-D800	503	
DAV MODELS:		Power On/Off, Play, Fast Forward, Rewind, Stop, Volume control, Menu, Cursors.
DAV-DS1000	501	
DAV-SC8	502	
DAV-SC6	502	
DAV-SC5	502	
DAC-SA30	502	
CINEMA KIT MODELS:		Power On/Off, Volume control.
HTP-1900	504	
HTP-1500	504	
HTP-1100	504	
HTP-3100	505	
HT-K250	504	
HT-DDW750	505	
HT-SL40	504	
HT-LS55	504	
AV RECEIVER MODELS:		Power On/Off, Volume control.
TV-DA9000ES	507	
STR-DA5000ES	507	
STR-DA3000ES	506	
STR-DB2000	505	
STR-DB790	508	
STR-DE695	508	
STR-DE595	507	
STV-DE495	507	

Technical Specifications

TV system:
I
Colour system:
PAL
SECAM, NTSC 3.58, 4.43 (only Video In)

Channel Coverage:
UHF: B21-B69

Picture Tube:
Flat Display FD Trinitron WIDE:
KV-28FQ86U: 28" (approx. 71cm. measured diagonally)
KV-32FQ86U: 32" (approx. 82cm. measured diagonally)

Rear Terminals
- **AV1**
  1/1
  21-pin scart connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.
- **AV2**
  2/2
  21-pin Scart connector (CENELEC standard) including audio/video input, RGB input, monitor audio/video output.
- **AV3**
  3/3
  21-pin Scart connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output and SmartLink interface.
- audio outputs (Left/Right) - phono jacks

Front Terminals
- 4 S Video input – 4 pin DIN.
- 4 video input – phono jack.
- 4 audio input – phono jacks.
- headphones jack.

Sound Output:
2 x 20 W (music power)
2 x 10 W (RMS)
Woofer:
30 W (music power)
15 W (RMS)

Power Consumption:
KV-28FQ86U: 130 W
KV-32FQ86U: 130 W

Standby Power Consumption:
0.5 W

Dimensions (w x h x d) :
KV-28FQ86U:
approx. 789 x 533 x 510 mm.
KV-32FQ86U:
approx. 910 x 586 x 586 mm.

Weight:
KV-28FQ86U: approx. 45 Kg.
KV-32FQ86U: approx. 64 Kg.

Accessories supplied:
- 1 Remote Control (RM-945)
- 2 Batteries (IEC designated, AA size)

Other features:
- 100 Hz picture, Digital Plus.
- Teletext, Fastext, TOPtext.
- NexTView.
- SmartLink.
- TV system autodetection.
- Dolby Virtual.
- BBE Digital.
- NICAM.
- PAP.
- ACI (Auto Channel Installation).

Optional accessories:
- Stand especially designed for this TV
  KV-28FQ86U: SU-28FQ3.
  KV-32FQ86U: SU-32FQ3.

Design and specifications are subject to change without notice.

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Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark) and no sound.	• Check the aerial connection. • Plug the TV in and press the ⏻ button on the front of the TV. • If the standby indicator ⏻ is on, press TV I/⏻ button on the remote control.
Poor or no picture (screen is dark), but good sound.	• Using the menu system, select the “Picture Adjustment” menu and select “Reset” to return to the factory settings (see page 11).
No picture or no menu information from equipment connected to the Scart connector.	• Check that the optional equipment is on and press the ⏎ button repeatedly on the remote control until the correct input symbol is displayed on the screen (see page 23).
Good picture, no sound.	Press the + button on the remote control. Check that “TV Speakers” is “On” in the “Sound Adjustment” menu(see page 13). Check that headphones are not connected.
No colour on colour programmes.	• Using the menu system, select the “Picture Adjustment” menu and select “Reset” to return to factory settings (see page 11).
When you switch on the TV the last channel you were watching before switching the TV off does not appear.	• This is not a malfunction. Press the number buttons on the remote control to select the desired channel.
Distorted picture when changing programmes or selecting teletext.	• Turn off any equipment connected to the Scart connector on the rear of the TV.
Wrong characters appear when viewing NexTView.	• Use the menu system to enter the “Language” menu (see page 16) and select the same language that NexTView is broadcast in.
Picture slanted.	• Using the menu system, select the “Picture Rotation” option in the “Features” menu to correct the picture slant (see page 15).
Snowy picture when viewing a TV channel.	• Using the menu system, select the “Manual Programme Preset” menu and adjust Fine Tuning (AFT) to obtain better picture reception (see page 18). • Using the menu system, select the “Noise Reduction” option in the “Picture Adjustment” menu and select “Auto” to reduce the noise in the picture (see page 11).

continued...

Problem	Solution
No unscrambled picture whilst viewing an unscrambled channel with a decoder or a Set Top Box connected through the Scart connector 3/ 3.	• Using the menu system, select the “Features” menu and set “AV3 Output” to “TV” (see page 15). • Check that the Decoder or the Set Top Box is not connected on the scart 2/ 2.
↓, ↑, ← and → buttons do not work in PAP mode.	• PAP navigation is only possible in TV mode, please check that Media Selector is set to TV.
Remote control does not function.	• Check that the Media Selector on the remote control is set to the device you are using (VCR, TV or DVD). • If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly, enter the necessary code set as explained on page 24. • Replace the batteries.
The standby indicator ⏻ on the TV flashes.	• Contact your nearest Sony service centre.

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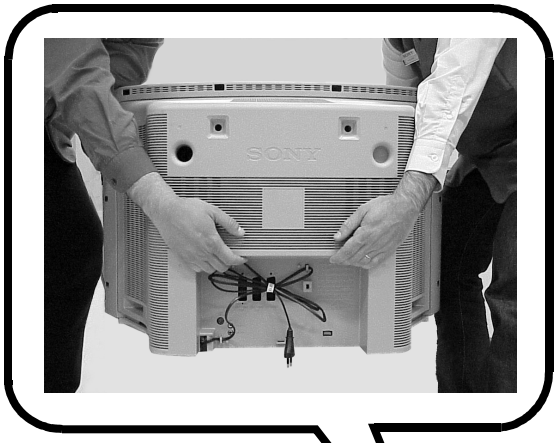
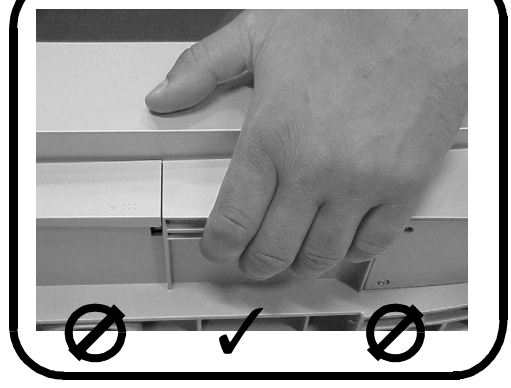
⚠ **• If you continue to experience problems, have your TV serviced by qualified personnel.**
• Never open the casing yourself.





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KV-28FQ86U/KV-32FQ86U

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